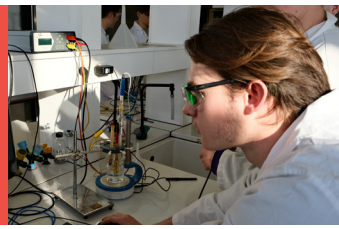
POLYTECH GRENOBLE

Materials

Materials Engineering graduates from Polytech Grenoble are strong all-around materials engineers and scientists capable of understanding all materials present in our environment, from polymers and metals to ceramics and composite materials.



Our graduates possess solid general engineering skills

- A capacity to use resources from a broad range of basic sciences
- Knowledge and understanding of a specialty scientific and technical field
- Mastery of engineering tools and methods
- An ability to work within an organization, manage a team, and implement change
- Understanding of broader industrial, financial, and professional issues
- A capacity to work in international settings
- Respect for societal values

Recent graduates have secured positions like:

R&D engineer
Quality-control engineer
Materials engineer
Design engineer
Manufacturing or production engineer
Process engineer
Sales engineer

Graduates have mastered specific competencies that prepare them to handle real-world professional situations:

Competency	Situation
Using the appropriate methods of analysis to identify malfunctions and/or adapt to changing conditions	• Correcting product failures • Keeping pace with changing markets • Responding to process drift
Using scientific experimentation and interpreting the results of an experiment to respond to a project's specifications	• Characterizing or improving the implementation of changing materials, products, and processes
Coming up with new ideas to fuel innovation	• Designing new materials, products, and processes • Promoting cross-disciplinary cooperation • Keeping up to date with the state of the art • Recommending innovative strategies and technological breakthroughs
Staying ahead of technological advances and keeping pace with a changing professional environment	• Coping with new professional environments (geographical location, topics, techniques) • Keeping pace with regulatory changes • Updating his/her knowledge
Coordinating human and technical resources	• Managing a team • Setting up and managing international projects • Staying ahead of trends (technical, ecological, geopolitical, and societal) • Making decisions, choices, and recommendations
Demonstrating awareness and improving his/her interpersonal and written communication skills	• Promoting and explaining his/her work orally and in writing • Gathering information, determining what is relevant, and sharing with others • Raising others' awareness of work-related issues

In-company placements:
Fourth year: 17 weeks
Fifth year: 22 weeks
Graduation project: for external customers (companies or research labs)

A selection of companies that have hired Materials Engineering graduates

CEA, AREVA, EDF, ST Microelectronics, Schneider Electric, Soitec, Amphenol Socapex, Teledyne E2V, Saint-Gobain, Ugitech, Lafarge, Vencorex, Caterpillar, Becton Dickinson, Tefal, Thales, Abylsen, Agap2, Bee Engineering, Yole...

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